Amendments to the Specification

Please replace paragraph [0029] with the following amended paragraph:

[0029] (a) a nucleic acid sequence as shown in SEQ.ID.NOS.: [[18]] 17-20, 25-28, 33-36, 41-44, 49-52, 57-60, 65-68, 73-76, 81-84, 89-92, 97-100 or that wherein T can also be U or that encodes a peptide having an amino acid sequence selected from the group consisting of: SEQ. ID. NOS: 13, 14, 21, 22, 29, 30, 37, 38, 45, 46, 53, 54, 61, 62, 69, 70, 77, 78, 85, 86, 93, 94, 101, 103 or that further has an amidation signal sequence (preferably GKR or GRR), at the carboxy terminus of said peptides, such as 15, 16, 23, 24, 31, 32, 39, 40, 47, 48, 55, 56, 63, 64, 71, 72, 79, 80, 97, 88, 95, 96;

Please replace paragraph [0052] with the following amended paragraph:

[0052] Figure 6A is a schematic representation of the functional domains within the Teneurin protein. Figure 6B is a schematic view of the exons on human teneurin 1 and an exploded view of the location of the C-terminal exon and location of TCAP thereon (SEQ ID NO:137). A conserved prohormone convertase-like cleavage motif is shown as grey boxes. It illustrates the structure of Teneurin C-terminal Associated Peptides and their location on the teneurin protein and gene.

Please replace paragraph [0053] with the following amended paragraph:

[0053] Figure 7A shows the alignment of the human, mouse, rat, chicken, rainbow trout, zebrafish and drosopholia TCAP sequences SEQ. ID.NOS: 69, 78, 85, 94, 37, 46, 53, 66, 78, 101, 136, 13, 21, 30 and 103 and 7B shows the alignment of the TCAP sequences from mammals birds insects and nematodes Fig. 7B SEQ. ID. NOS: 37, ~~101 (without the Q at the N-terminus)~~138, 69, 61, 93, 53, 85, 13, 21, 77, ~~30~~29, and 103. In figure 7B, non homologous amino acid substitutions are shaded in light grey. Homologous residues are shaded in dark grey.

Please replace paragraph [0079] with the following amended paragraph:

[0079] (a) a nucleic acid sequence as shown in SEQ.ID.NOS.: [[18]] 17-20, 25-28, 33-36, 41-44, 49-52, 57-60, 65-68, 73-76, 81-84, 89-92, 97-100 or that wherein T can also be U or that encodes a peptide having an amino acid sequence selected from the group consisting of : SEQ. ID. NOS: 13, 14, 21, 22, 29, 30, 37, 38, 45, 46, 53, 54, 61, 62, 69, 70, 77, 78, 85, 86, 93, 94, 101, 103 or that further has an amidation signal sequence (preferably GKR or GRR), at the carboxy terminus of said peptides, such as 15, 16, 23, 24, 31, 32, 39, 40, 47, 48, 55, 56, 63, 64, 71, 72, 79, 80, 97, 88, 95, 96;

Please replace Sequence Listing pages 1/88-88/88 currently of record with the enclosed, amended, Sequence Listing pages 1/77-77/77 provided herewith. It is respectfully requested that the amended pages appear after the Drawings, in accordance with 37 C.F.R. § 1.823.